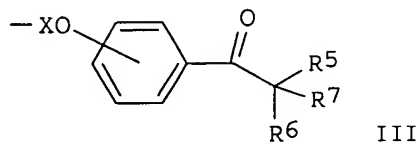
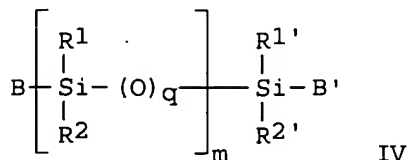
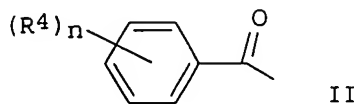
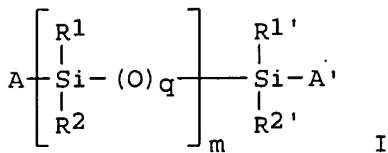


L8 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN  
 AN 2003:719637 CAPLUS  
 DN 139:244806  
 TI Enzymatic process for preparing organosilicon group containing photoinitiators  
 IN Oehrlein, Reinhold; Schoening, Kai-uwe; Baisch, Gabriele; Hartwig, Jemima; Baudin, Gisele; Jung, Tunja  
 PA Ciba Specialty Chemicals Holding Inc., Switz.  
 SO PCT Int. Appl., 29 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI.	WO 2003074718	A1	20030912	WO 2003-EP1896	20030225
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	CA 2475469	AA	20030912	CA 2003-2475469	20030225
	EP 1481074	A1	20041201	EP 2003-743326	20030225
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	BR 2003008200	A	20050104	BR 2003-8200	20030225
	US 2005124820	A1	20050609	US 2003-506698	20030225
	JP 2005518808	T2	20050630	JP 2003-573164	20030225
PRAI	EP 2002-405171	A	20020306		
GI	WO 2003-EP1896	W	20030225		



AB The invention relates to a process for preparing organosilicon group containing photoinitiators of the formula (I), wherein m is 1-200; q is 0 or 1; A is IN-C(O)-O-CHR3-Y- or IN-C(O)-NH-CHR3-Y-; A' is A or R1'; R1 and R1', R2 and R2' are C1-C18 alkyl or Ph, or -(O)q-SiR1R1'R2'; R3 is H or C1-C6alkyl, Y is a divalent group selected from C1-C10 alkylene, C2-C10 alkenylene or -(CH2)b-O-(CH2)a-; and b are each independently of the other a number of 1 to 6; IN is a **photolabile** functional moiety of formula (II) or (III), wherein R4 is H or -C(O)-C(O)-OH or -C(O)-C(O)-OC1-C6 alkyl and n

is 1-3; R5 and R6 are C1-C12 alkyl or together are cyclo C5-C7 alkyl; R7 is hydroxy, C1-C6 alkoxy or morpholinyl; X is -(CH2)a-, -(CH2)b-O-(CH2)a- or -(CH2)b-O-CO-(CH2)a-; a and b are each independently of the other a number of 1 to 6; whereby the process is characterized in that a **photolabile** functional moiety containing a carboxy group (IN-COOH) or an alkoxy carbonyl group (IN-CO-OC1-C6alkyl) is reacted with a carbinol- or amino terminated organosilicon compound of the formula (IV), wherein m, R1 and R1', R2 and R2'; are as defined above and B is -Y-CHR3-OH or -Y-CHR3-NH2; B' is B or R1', in the presence of an **enzyme** which catalyzes the esterification, transesterification, or amidation reaction.

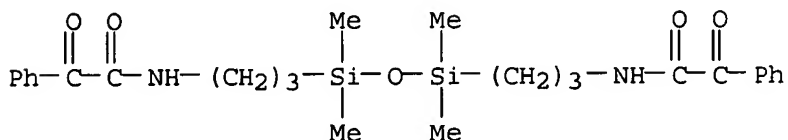
IT **596135-66-9P**

RL: BMF (Bioindustrial manufacture); BPN (Biosynthetic preparation); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); PREP (Preparation)

(enzymic process for preparing organosilicon group containing photoinitiators

RN 596135-66-9 CAPLUS

CN Benzeneacetamide, N,N'-[(1,1,3,3-tetramethyl-1,3-disiloxanediyl)di-3,1-propanediyl]bis[α-oxo- (9CI) (CA INDEX NAME)



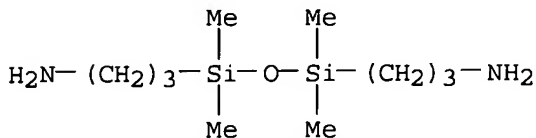
IT **2469-55-8**

RL: RCT (Reactant); RACT (Reactant or reagent)

(enzymic process for preparing organosilicon group containing photoinitiators

RN 2469-55-8 CAPLUS

CN 1-Propanamine, 3,3'-[(1,1,3,3-tetramethyl-1,3-disiloxanediyl)bis- (9CI) (CA INDEX NAME)



RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2004:162699 CAPLUS

DN 140:218590

TI **Enzyme** catalyzed **organosilicon** esters and amides and preparation method

IN Brandstadt, Kurt Friedrich; Lane, Thomas Howard; Gross, Richard A.

PA Dow Corning Corporation, USA

SO PCT Int. Appl., 61 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN. CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004016625	A2	20040226	WO 2003-US25561	20030815
	WO 2004016625	A3	20050506		
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	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	US 2004082024	A1	20040429	US 2003-642098	20030815
	EP 1546159	A2	20050629	EP 2003-788510	20030815
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
PRAI	US 2002-403960P	P	20020816		
	US 2002-403962P	P	20020816		
	WO 2003-US25561	W	20030815		

AB The **organosilicon** esters and amides may be formed by contacting a hydrolase **enzyme** with an **organosilicon** reactant and an organic reactant. The **enzyme** may catalyze the formation of an ester bond between carboxylic acid, ester, or amide functional groups of the **organosilicon** or organic reactant and alc. functional groups of the organic or **organosilicon** reactant. The **enzyme** may catalyze the formation of an amide bond between carboxylic acid, ester, or amide functional groups of the **organosilicon** or organic reactant and amine functional groups of the organic or **organosilicon** reactant. Novozyme 435 was used to catalyze the polyesterification of a carbinol-endblocked polydimethylsiloxane and adipic acid in refluxing hexane at 70° for 6 days.

IT 663920-09-0P 663920-10-3P 663920-11-4P

663920-16-9P 663920-19-2P 663920-21-6P

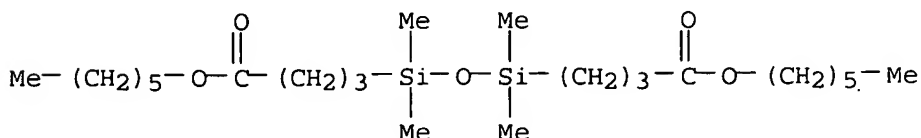
663920-22-7P

RL: IMF (Industrial manufacture); PREP (Preparation)

(**enzyme**-catalyzed manufacture of **organosilicon** esters and amides, polyester-polysiloxanes, and polyamide-polysiloxanes and their characterization)

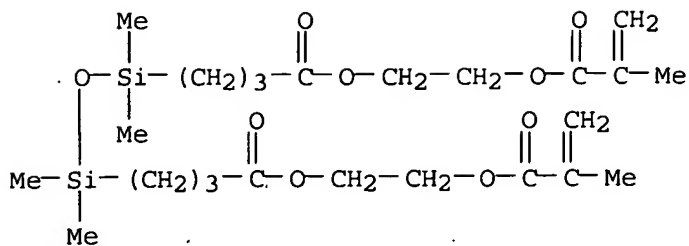
RN 663920-09-0 CAPLUS

CN Butanoic acid, 4,4'-(1,1,3,3-tetramethyl-1,3-disiloxanediyl)bis-, dihexyl ester (9CI) (CA INDEX NAME)



RN 663920-10-3 CAPLUS

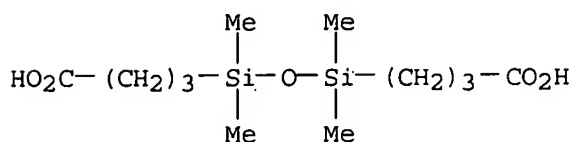
CN Butanoic acid, 4,4'-(1,1,3,3-tetramethyl-1,3-disiloxanediyl)bis-, bis[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl] ester (9CI) (CA INDEX NAME)



RN 663920-11-4 CAPLUS  
 CN Butanoic acid, 4,4'-(1,1,3,3-tetramethyl-1,3-disiloxanediyl)bis-, polymer with 1,6-hexanediol (9CI) (CA INDEX NAME)

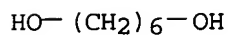
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CRN 3353-68-2  
 CMF C12 H26 O5 Si2



CM 2

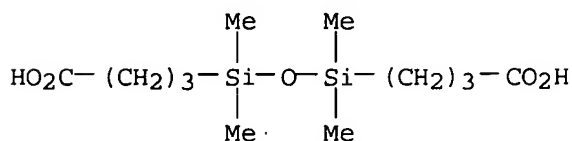
CRN 629-11-8  
 CMF C6 H14 O2



RN 663920-16-9 CAPLUS  
 CN Hexanedioic acid, polymer with 1,6-hexanediol and 4,4'-(1,1,3,3-tetramethyl-1,3-disiloxanediyl)bis[butanoic acid] (9CI) (CA INDEX NAME)

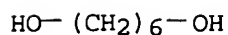
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CRN 3353-68-2  
 CMF C12 H26 O5 Si2



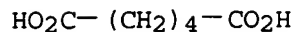
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CRN 629-11-8  
 CMF C6 H14 O2

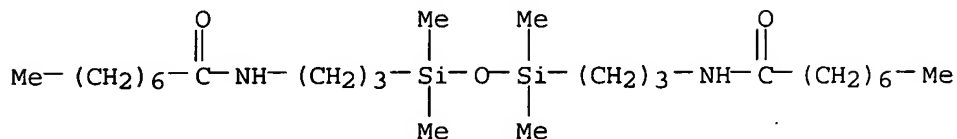


CM 3

CRN 124-04-9  
CMF C6 H10 O4



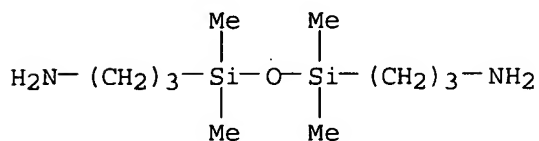
RN 663920-19-2 CAPLUS  
CN Octanamide, N,N'-[(1,1,3,3-tetramethyl-1,3-disiloxanediyl)di-3,1-propanediyl]bis- (9CI) (CA INDEX NAME)



RN 663920-21-6 CAPLUS  
CN Hexanedioic acid, dimethyl ester, polymer with 3,3'-(1,1,3,3-tetramethyl-1,3-disiloxanediyl)bis[1-propanamine] (9CI) (CA INDEX NAME)

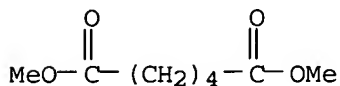
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CRN 2469-55-8  
CMF C10 H28 N2 O Si2



CM 2

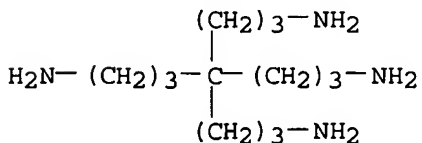
CRN 627-93-0  
CMF C8 H14 O4



RN 663920-22-7 CAPLUS  
CN Butanoic acid, 4,4'-(1,1,3,3-tetramethyl-1,3-disiloxanediyl)bis-, polymer with 4,4-bis(3-aminopropyl)-1,7-heptanediamine (9CI) (CA INDEX NAME)

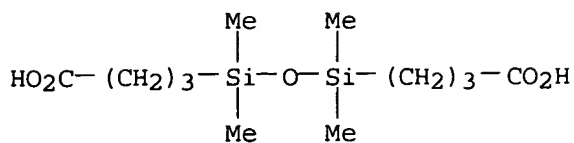
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CRN 252722-08-0  
CMF C13 H32 N4

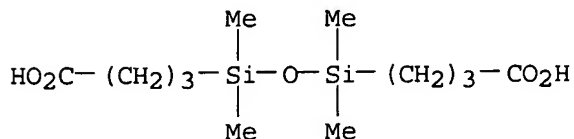


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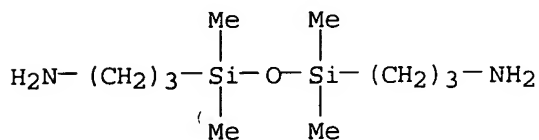
CRN 3353-68-2  
CMF C12 H26 O5 Si2



IT **3353-68-2**, 1,3-Bis(3-carboxypropyl)tetramethyldisiloxane  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction with alc. or amine; **enzyme**-catalyzed manufacture of **organosilicon** esters and amides, polyester-polysiloxanes, and polyamide-polysiloxanes and their characterization)  
RN 3353-68-2 CAPLUS  
CN Butanoic acid, 4,4'-(1,1,3,3-tetramethyl-1,3-disiloxanediyl)bis- (9CI)  
(CA INDEX NAME)



IT **2469-55-8**, 1,3-Bis(3-aminopropyl)tetramethyldisiloxane  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction with octanoic acid; **enzyme**-catalyzed manufacture of **organosilicon** esters and amides, polyester-polysiloxanes, and polyamide-polysiloxanes and their characterization)  
RN 2469-55-8 CAPLUS  
CN 1-Propanamine, 3,3'-(1,1,3,3-tetramethyl-1,3-disiloxanediyl)bis- (9CI)  
(CA INDEX NAME)



L11 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2004:162700 CAPLUS

DN 140:200287

TI **Enzyme**-catalyzed formation of **organosilicon** carbohydrates

IN Brandstadt, Kurt Friedrich; Lane, Thomas Howard; Gross, Richard A.

PA Dow Corning Corporation, USA

SO PCT Int. Appl., 30 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004016626	A2	20040226	WO 2003-US25562	20030815
	WO 2004016626	A3	20040930		
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	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	CA 2495944	AA	20040226	CA 2003-2495944	20030815
	US 2004077816	A1	20040422	US 2003-642101	20030815
	EP 1539777	A2	20050615	EP 2003-788511	20030815
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
PRAI	US 2002-403963P	P	20020816		
	WO 2003-US25562	W	20030815		

AB The structurally defined **organosilicon** carbohydrates may be formed by contacting a hydrolase **enzyme** with an **organosilicon** reactant and a carbohydrate reactant. The **enzyme** may catalyze the formation of an ester bond between carboxylic acid, ester, or amide functional groups of the **organosilicon** or carbohydrate reactant and alc. functional groups of the carbohydrate or **organosilicon** reactant. The **enzyme** may catalyze the formation of an amide bond between carboxylic acid, ester, or amide functional groups of the **organosilicon** or carbohydrate reactant and amine functional groups of the carbohydrate or **organosilicon** reactant.

IT 662147-98-0P

RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)

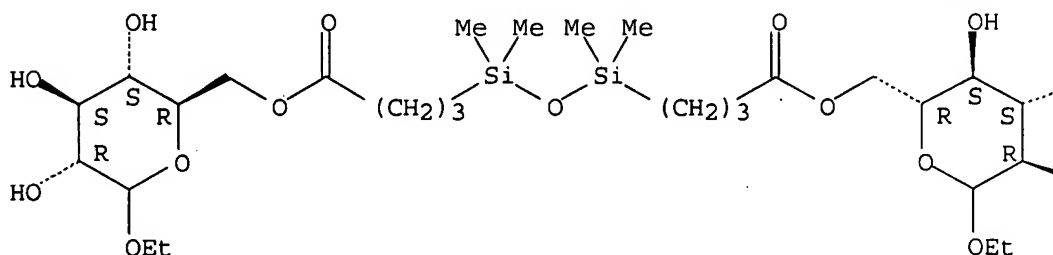
(**enzyme** catalyzed condensation of glucoside with organo-silicon in preparation of sweet products)

RN 662147-98-0 CAPLUS

CN D-Glucopyranoside, ethyl, 6,6'-[4,4'-(1,1,3,3-tetramethyl-1,3-disiloxanediyl)bis[butanoate]] (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



OH

OH

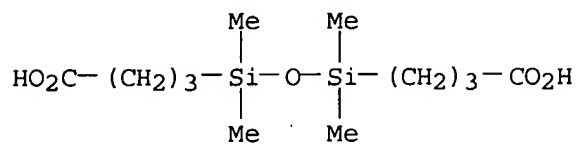
IT 3353-68-2, 1,3-Bis(3-carboxypropyl)tetramethyldisiloxane

RL: RCT (Reactant); RACT (Reactant or reagent)

(enzyme catalyzed condensation of glucoside with  
organo-silicon in preparation of sweet products)

RN 3353-68-2 CAPLUS

CN Butanoic acid, 4,4'-(1,1,3,3-tetramethyl-1,3-disiloxanediyl)bis- (9CI)  
(CA INDEX NAME)





(FILE 'HOME' ENTERED AT 14:18:02 ON 23 SEP 2005)

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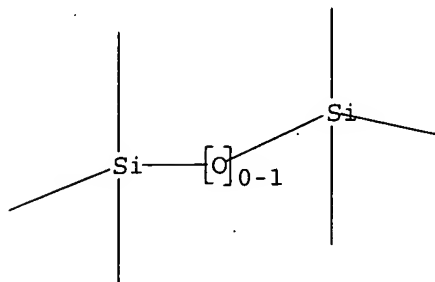
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L9 48 S L7 NOT L4  
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L12 42 S L10 NOT L11  
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L15 11 S L14 AND ESTER?  
L16 28 S L14 NOT L15

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L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.